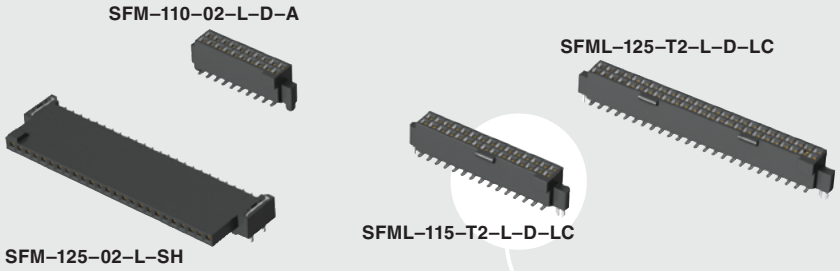
samtec

TIGER™ EYE SYSTEM



(1.27 mm) .050"

SMT & THROUGH-HOLE TIGER EYE™ SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?SFM or www.samtec.com?SFML

Insulator Material:
Black Liquid Crystal Polymer
Plating:
Au or Sn over 50 µ" (1.27 µm) Ni
Current Rating (SFM/TFM):
3.2 A per pin
(2 pins powered)
Voltage Rating:
250 VAC mated with TFM
Operating Temp Range:
-55 °C to +125 °C
Insertion Depth:
(3.05 mm) .120" to
(4.06 mm) .160"
Wiping Distance:
(0.38 mm) .015"
Normal Force:
Standard= 132 g (1.29 N) avg.;
LIF= 90 g (0.88 N) avg.
Max Cycles:
10,000 with 30 µ" (0.76 µm) Au
(Call Samtec for E.L.P.™ plating option)
RoHS Compliant:
Yes

PROCESSING

Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (05-25)
(0.15 mm) .006" max (30-50)*
*(.004" stencil solution may be available; contact IPG@samtec.com)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594

Note: Some sizes, styles and options are non-standard, non-returnable.

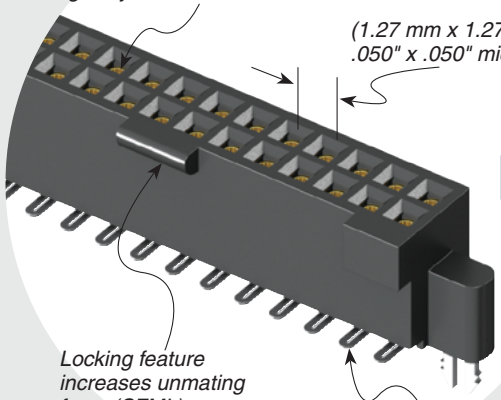
SFM Board Mates:
TFM

SFM Cable Mates:
TFSD, TFSS

SFML Board Mates:
TFML

TIGER™ EYE CONTACT

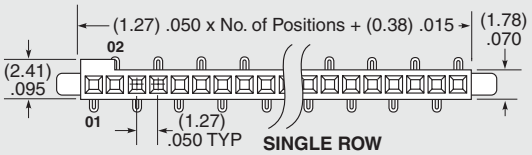
10 YEAR MFG WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES

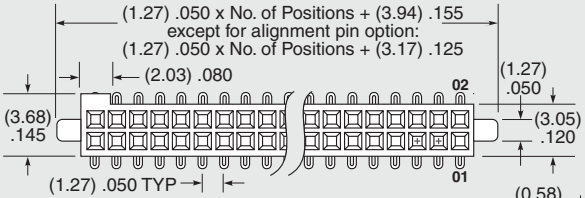


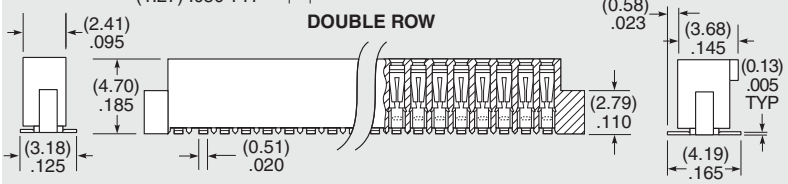
RUGGEDIZED BY SAMTEC

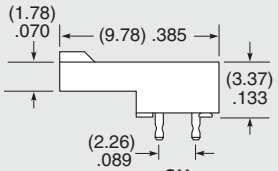
- Passes 10 Year MFG
- Locking option
- Locking clip option
- Screw Down option

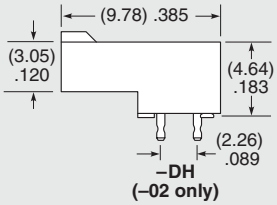
TYPE STRIP	1	NO. PINS PER ROW	LEAD STYLE	
			(Surface Mount)	(Through-hole)
SFM = Standard **SFML** = Locking		03, 04, 06, 08 (SFM only) 05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes)	–02 = Tiger Eye™ Contact (BeCu) –L2 = Low Insertion Force Tiger Eye™ Contact (BeCu) –T2 = Tiger Eye™ LITE Contact (Phosphor Bronze)	–01, –03 = Tiger Eye™ Contact (BeCu) –L1, –L3 = Low Insertion Force Tiger Eye™ Contact (BeCu) –T1 = Tiger Eye™ LITE Contact (Phosphor Bronze)











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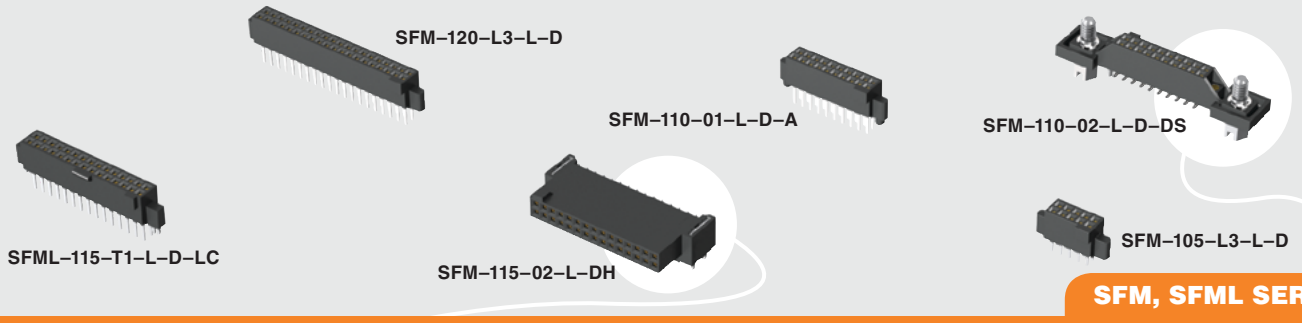
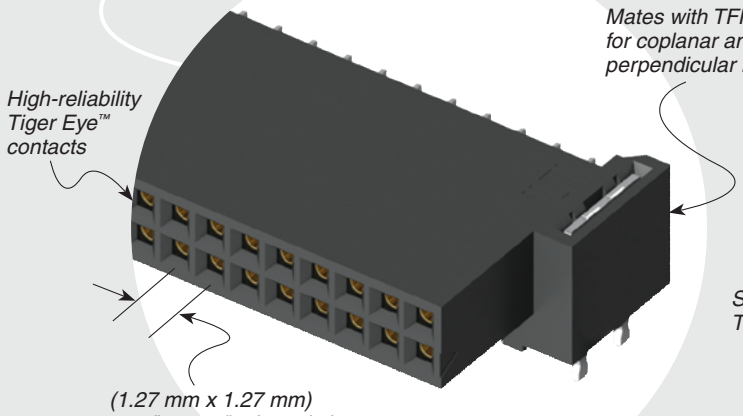
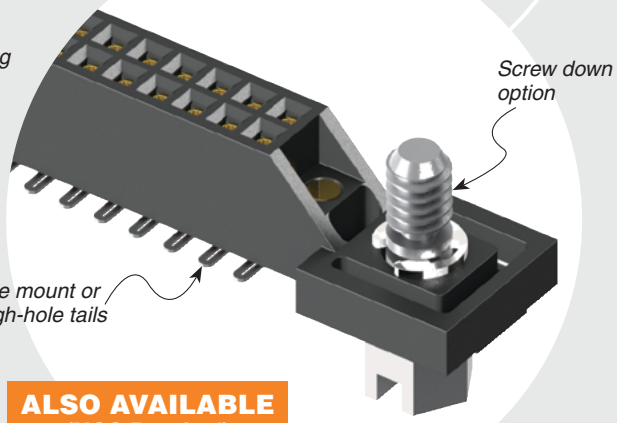


SFM, SFML SERIES





OTHER SOLUTIONS

- Lower cost plating options. See SFC Series.

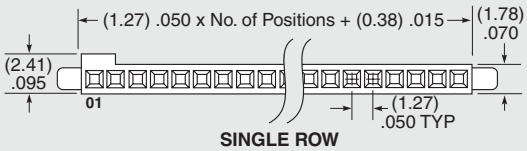
ALSO AVAILABLE (MOQ Required)

- Solder nail option
- Other sizes
- Other platings

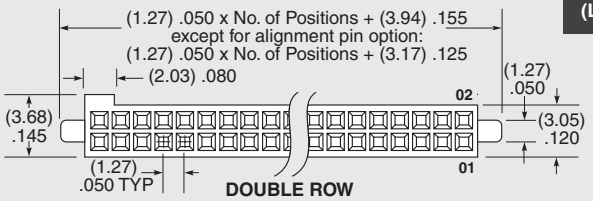
PLATING OPTION

–L
= 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail
(Call Samtec for E.L.P.™ plating option)

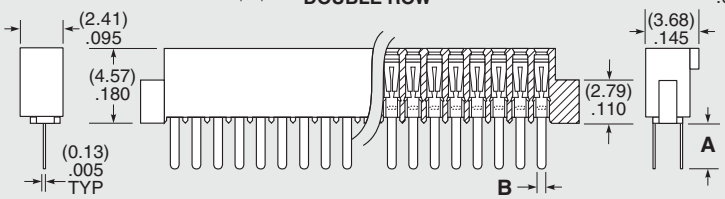
LEAD STYLE	A	B
–01, –L1, –T1	(3.05) .120	(0.51) .020
–03, –L3	(1.91) .075	(0.41) .016

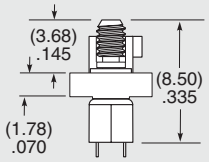


SINGLE ROW

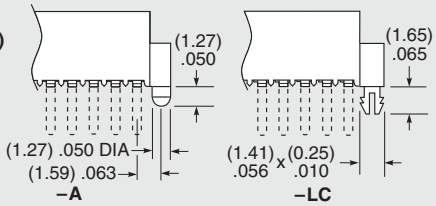


DOUBLE ROW





–DS
(–D, –01 –02 & –03)



ROW OPTION

–S
= Single Row
(SFM only)

–D
= Double Row

–SH
= Single Horizontal
(05 thru 30 positions only)
(SFM only)
(Lead style –02 only)

–DH
= Double Horizontal
(05 thru 30 positions only)
(SFM only)
(Lead style –02 only)

OPTION

Specify only –A, –LC or –DS
(Not available with –DH, –SH)

–A
= Alignment Pin
(Available with all lead styles)

–LC
= Locking Clip
(Available with all lead styles)
(Manual placement required)

–DS
= Dual Screw Down for
(1.60 mm) .062" PCB
(05 thru 40 positions only)
(Lead styles –01, –02 & –03 only)
(Requires –D row option)
(Not available with SFML)
(Mates with TFM-DS option)
(Not available with –A,
–LC, –K, –P, –TR)

Specify only
–K or –P
(Lead styles –02,
–L2, –T2 only)

–K
= Polyimide film
Pick & Place Pad
(Not available
with –DH, –SH)

–P
= Plastic Pick &
Place Pad
(Not available
with –DH, –SH)

Specify –TR last
(Lead styles –02,
–L2, –T2 only)

–TR
= Tape & Reel
(Required callout
for –DH, –SH)

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Samtec:

SFM-125-02-S-D-A-P-TR SFM-135-L2-S-D-A SFM-105-03-S-D-LC SFM-105-01-S-D SFM-110-02-L-D-A SFM-115-02-S-D SFM-125-03-S-D SFM-140-02-S-D-A SFM-150-02-S-D-A SFM-130-02-S-D-LC-K-TR SFM-105-02-S-D-LC SFM-125-02-S-D-LC SFM-135-02-S-D-A-P-TR SFM-115-02-S-D-LC-P-TR SFM-150-02-S-D-LC SFM-110-02-S-D-A SFM-125-02-S-D-A SFM-140-02-S-D SFM-110-02-S-D-A-P-TR SFM-105-02-S-D-A-K-TR SFM-105-02-S-D-K-TR SFM-130-02-S-D-LC SFM-105-02-S-D SFM-115-02-S-D-K-TR SFM-140-L2-S-D-LC SFM-120-02-S-D-A-P-TR SFM-130-01-S-D-A SFM-110-02-S-D-LC SFM-120-02-S-D-A SFM-115-02-S-D-A SFM-115-01-S-D-LC SFM-105-T2-F-D-A-K-TR SFM-110-02-S-D-A-TR SFM-105-03-S-D-A SFM-135-02-S-D-A SFM-105-02-S-D-A SFM-130-02-S-D-A SFM-140-02-L-D-LC SFM-120-L2-S-D-LC SFM-125-02-L-D-A SFM-115-02-L-D-A-K-TR SFM-130-L2-S-D-LC SFM-130-02-L-DH-TR SFM-135-01-S-D SFM-120-02-L-DH-TR SFM-105-02-L-D-LC SFM-125-02-L-D SFM-110-02-L-D SFM-120-02-L-D-LC SFM-105-L2-S-D SFM-105-02-L-D-A SFM-115-02-S-D-LC SFM-125-01-L-D-LC SFM-110-02-S-D-P-TR SFM-105-02-S-D-LC-P-TR SFM-105-03-S-D SFM-130-02-S-D-A-K-TR SFM-150-01-S-D-A SFM-125-02-L-D-LC SFM-130-02-L-D-LC SFM-105-L2-S-D-LC SFM-110-02-S-D-A-P SFM-110-02-SM-D-A-K-TR SFM-120-01-L-D SFM-150-02-S-D SFM-106-02-L-D SFM-115-01-S-D-A SFM-107-02-L-D SFM-107-02-L-D-K-TR SFM-130-02-S-D SFM-106-01-L-D-A SFM-106-02-L-D-LC SFM-107-01-L-D SFM-125-02-S-D-A-K-TR SFM-125-L2-L-D-A SFM-140-01-L-D-A SFM-110-01-S-D-A SFM-145-L2-S-D-LC SFM-135-02-S-D-LC SFM-110-01-S-D-LC SFM-105-02-L-D-A-K-TR SFM-125-L2-S-D-A SFM-115-02-L-DH-TR SFM-115-02-S-D-A-P SFM-110-03-S-D SFM-110-02-S-D SFM-120-01-S-D SFM-130-L2-S-D-A SFM-135-02-L-D-A SFM-105-02-L-D-K-TR SFM-115-01-L-D-A SFM-115-02-L-D SFM-105-01-S-D-LC SFM-110-02-S-D-A-K-TR SFM-120-02-S-D-LC SFM-120-02-L-D-A SFM-110-01-S-D SFM-110-02-S-D-LC-P-TR SFM-115-02-L-D-A-K SFM-125-01-S-D